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detector/analyser and output means are used to receive radiation scattered at said sensing location.

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7. (Amended) A method according to Claim 1 wherein the radiation source and input means are operated to direct radiation towards said sensing location and the detector/analyser and output means are used to receive radiation transmitted through said sensing location.

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8. (Amended) A method according to Claim 1 wherein the radiation source and input means are operated to direct radiation towards said sensing location and the detector/analyser and output means are used to receive radiation emitted from said sensing location.

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9. (Amended) A method according to Claim 1 including a step of examining the spectroscopic characteristics of the radiation received by the detector/analyser to provide data relating to the chemical nature of liquid at the sensing location.

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10. (Amended) A method according to claim 1 wherein the radiation source and detector/analyser are remote from the site and are connected to the input and output means, respectively, via waveguide means.

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11. (Amended) A method according to claim 1 wherein there are a plurality of sensor assemblies which are located at different sites, and the method includes switching the connection of the radiation source and/or the detector/analyser between different sensor assemblies.

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14. (Amended) An assembly according to Claim 10 wherein the detector/analyser comprises means for spectroscopic analysis.

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15. (Amended) An assembly according to Claim 12 further comprising a vessel containing a hydrophobic liquid and wherein said hydrophobic element is located at a site